



Features:

- DC/DC step-down converter
- Constant current output: 300mA to 700mA
- Wide input voltage: 9 ~ 36VDC
- Wide output LED string voltage: 2 ~ 32VDC
- High efficiency up to 95%
- Built-in EMI filter, comply with BS EN/EN55015 and FCC part15 without additional input filter and capacitors
- Built-in PWM dimming and remote ON/OFF control
- Protections: Short circuit / Over temperature
- Cooling by free air convection
- Fully encapsulated with IP67 level for pin and wire style
- Compact size
- Low cost, high reliability
- Suitable for driving illumination LED
- 3 years warranty

■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

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LDD-350L W Blank : pin style

W : wire style S : SMD style

SPECIFICATION

ORDER NO.		LDD-300L	LDD-350L	LDD-500L	LDD-600L	LDD-700L	
C	CURRENT RANGE		300mA	350mA	500mA	600mA	700mA
V	OLTAGE RAN	GE Note.4	2 ~ 32VDC for LDD-300~700L/LW ; 2~ 28VDC for LDD-300~700LS				
C	CURRENT ACCURACY (Typ.)		· · · · · · · · · · · · · · · · · · ·				
OUIPUI 🛏	RIPPLE & NOISE(max.) Note.2			150mVp-p	150mVp-p	200mVp-p	200mVp-p
SI	SWITCHING FREQENCY		40KHz ~ 1000KHz				
EX	(TERNAL CAPACIT	TANCE LOAD (max.)	2.2uF				
V	VOLTAGE RANGE		9 ~ 36VDC for LDD-300~700L/LW; 9~ 32VDC for LDD-300~700LS				
EI	EFFICIENCY (max.)		95% at full load and 24VDC/36VDC input for LDD-300~700L/LW; 95% at full load and 24VDC input for LDD-300~700LS				
INPUT	CCUDDENT	Full load Note.3	300mA	350mA	500mA	600mA	700mA
יט	C CURRENT	No load	5mA			'	<u> </u>
FI	FILTER		Capacitor				
			Leave open if not use				
PWM	EMOTE ON/O	FF	Power ON with dimming: DIM ~ -Vin >3.5 ~ 8VDC or open circuit				
DIMMING &			Power OFF: DIM ~ -Vin < 0.5VDC or short				
	WM FREQUEN	NCY	100 ~ 1KHz				
	QUIESCENT INPUT CURRENT IN SHUTDOWN MODE(max.)		1mA at PWM dimming OFF and 24VDC input				
0.1	LIODT OIDOU	-	Regulated at rated output current				
	SHORT CIRCUIT		Protection type: Can be continued, recovers automatically after fault condition is removed				
PROTECTION	OVER TEMPERATURE		Tj 150°C typically(IC1	l) detect on main contro	IIC		
U			Protection type : Shut down, recovers automatically after temperature goes down				
W	WORKING TEMP.		-40 ~ + 85°C (Refer to derating curve)				
W	WORKING HUMIDITY		20% ~ 90% RH non-condensing for LDD-300~700L/LW; 20% ~ 85% RH non-condensing for LDD-300~700LS				
	STORAGE TEMP., HUMIDITY		-55 ~ +125°C, 10 ~ 95°	% RH			
ENVIRONMENT	TEMP. COEFFICIENT		±0.03% / ℃				
VI	VIBRATION		10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes				
OI	PERATING CAS	SE TEMP. (max.)	100℃				
S	AFETY STAND	DARDS	EAC TP TC 020/2011	approved			
EMC EI	MC EMISSION	I	Compliance to BS EN/EN55015, FCC part 15 class B, EAC TP TC 020				
EI	MC IMMUNITY	1	Compliance to BS EN/EN61000-4-2,3,4,6,8, light industry level, criteria A, EAC TP TC 020				
M	TBF		1000Khrs min. MIL-HDBK-217F (25°C)				
	IMENSION		22.6*9.9*8.9mm or 0.89"*0.39"*0.35" inch (L*W*H) for LDD-300~700L/LW; 25.4*10.5*9.3mm or 1"*0.4135"*0.366" inch (L*W*H) for LDD-300~700L/S				
OTHERS	WEIGHT		LDD-300~700L:4g; LDD-300~700LW:7.3g; LDD-300~700LS:3.4g				
P	POTTING MATERIAL		Expoxy(UL94-V0) for LDD-300~700L/LW; without potted for LDD-300~700LS				
	1.All parameters are specified at normal input(24VDC), rated load, 25°C 70% RH ambient. 2.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf capacitor. 3.Test condition: 24VDC input. 4.Output voltage will always step down by 3 volts from input DC voltage. 5.The output of LDD-L should not be connected to the input of the same unit or output from other sources. ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx						
				, p	.,		File Name:LDD-L-SPEC 2022-





Features :

- DC/DC step-down converter
- Constant current output: 1000mA to 1500mA
- Wide input voltage: 6 ~ 36VDC
- Wide output LED string voltage: 2 ~ 30VDC
- High efficiency up to 95%
- Built-in EMI filter, comply with BS EN/EN55015 and FCC part15 without additional input filter and capacitors
- Built-in PWM +analog dimming and remote ON/OFF control
- Protections: Short circuit
- Cooling by free air convection
- Fully encapsulated with IP67 level for pin and wire style
- Non-potted, optional conformal coating for SMD style (Order No.: LDD-11000LSC)
- Compact size
- · Low cost, high reliability
- Suitable for driving illumination LED
- 3 years warranty

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LDD-1000L W Blank : pin style

W : wire style S : SMD style

SPECIFICATION

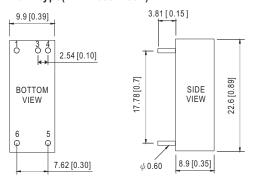
ORDER NO.			LDD-1000L	LDD-1200L	LDD-1500L	
CURRENT RANGE		NGE	1000mA	1200mA	1500mA	
	VOLTAGE RANGE Note.4		2 ~ 30VDC			
OUTDUT	CURRENT ACCURACY (Typ.)		±5% at 24VDC input			
OUTPUT	RIPPLE & NOISE(max.) Note.2		1.5Vp-p	1.5Vp-p	1.5Vp-p	
	SWITCHING FREQUENCY		1000KHz			
	EXTERNAL CAPACI	TANCE LOAD (max.)	2.2uF			
	VOLTAGE RANGE		6~36VDC			
	EFFICIENCY (max.)		95% at full load and 24VDC/36VDC input for LDD-1000~1500L/LW			
INPUT	DO GUEDENIA	Full load Note.3	990mA	1160mA	1450mA	
	DC CURRENT	No load	5mA		<u> </u>	
	FILTER	·	Capacitor			
			Leave open if not use			
PWM	REMOTE ON/O	FF	Power ON with dimming: DIM ~ -Vin >2.6	- 5.5VDC or open circuit		
DIMMING &			Power OFF: DIM ~ -Vin < 0.4VDC or short			
ON/OFF	PWM FREQUE	NCY	100 ~ 500Hz			
CONTROL			1mA at PWM dimming OFF and 24VDC input			
ANALOG	DIMMING & REMOTE ON / OFF DN/OFF		Leave open if not use			
&			Power ON with dimming: DIM ~ -Vin>0.5~2.5VDC or open circuit			
CONTROL			Power OFF: DIM ~ -Vin<0.4VDC or short			
PROTECTION	SHORT CIRCU	IT	Regulated at rated output current			
PROTECTION	onorr onco		Protection type: Can be continued, recovers automatically after fault condition is removed			
	WORKING TEN	IP.	-40 ~ + 71°C (Refer to derating curve)			
	WORKING HUI	MIDITY	20% ~ 90% RH non-condensing for LDD-1000~1500L/LW; 20%~85% RH non-condensing for LDD-1000~1500LS			
ENVIRONMENT	STORAGE TEMP., HUMIDITY		-55 ~ +125°C, 10 ~ 95% RH			
ENVIRONMENT	TEMP. COEFFICIENT		±0.03% / °C			
	VIBRATION		10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes			
	OPERATING CASE TEMP. (max.)) 100℃			
	SAFETY STANDARDS		EAC TP TC 020/2011 approved			
EMC	EMC EMISSION	N	Compliance to BS EN/EN55015, FCC part 15 class B, EAC TP TC 020			
	EMC IMMUNITY	Υ	Compliance to BS EN/EN61000-4-2,3,4,6,8, light industry level, criteria A, EAC TP TC 020			
	MTBF		1000Khrs min. MIL-HDBK-217F (25°C)			
0711500	DIMENSION		31.8*20.3*12.2mm or 1.25"*0.8"*0.48" inch (L*W*H) for LDD-1000~1500L/LW; 31.8*20.3*10.9mm or 1.25"*0.8"*0.43" inch (L*W*H) for LDD-1000~1500LS			
OTHERS	WEIGHT		LDD-1000~1500L:15.6g; LDD-1000~1500LW:18g; LDD-1000~1500LS:12.8g			
	POTTING MATERIAL		Expoxy(UL94-V0) for LDD-1000~1500L/LW; without potted for LDD-1000~1500LS			
NOTE	2.Ripple & no 3.Test condit 4.Output volt 5.The output	pise are measu tion: 36VDC inp age will always of LDD-L shou	ed at normal input(24VDC), rated load, red at 20MHz by using a 12" twisted part. step down by 3 volts from input DC vold not be connected to the input of the ser: For detailed information, please refered at 200 presers.	ir terminated with a 0.1uf capaci tage. came unit or output from other so	ources.	
	•	·	·		File Name:LDD-L-SPEC 2022-04	



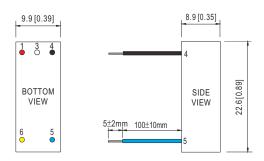
■ Mechanical Specification

Blank type(LDD-300~700L):

Unit: mm (inch)



NOTE: Pin tolerance ±0.05mm



NOTE: All wires UL3385 22AWG

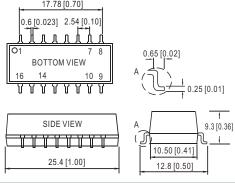
W type(LDD - 300~700LW):

■ Pin Configuration

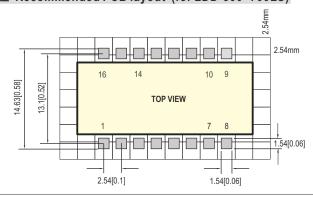
Р	in No.	Comment
1	+Vin	DC Supply
3	PWM DIM	ON/OFF and PWM Dimming (Leave open if not used)
4	-Vin	Don't connect to -Vout
5	-Vout	LED - Connection
6	+Vout	LED + Connection

Pi	in No.	Comment
1 +Vin (Red)		DC Supply
3	PWM DIM (White)	ON/OFF and PWM Dimming (Leave open if not used)
4	-Vin (Black)	Don't connect to -Vout
5	-Vout (Blue)	LED - Connection
6	+Vout (Yellow)	LED + Connection

S type(LDD -300~700LS):



П	Recommended F	CR lavout	for LDD-3	200~7001 \$1
	Necollillellueu r	CDIAVOUL	HULLDU-3	JUU~/UULSI



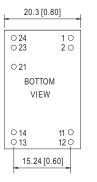
Р	in No.	Comment
1	+Vin	DC Supply
7,8	+Vout	LED + Connection
9,10	-Vout	LED - Connection
14	PWM DIM	ON/OFF and PWM Dimming (Leave open if not used)
16	-Vin	Don't connect to -Vout
others	N.C	LED - Connection

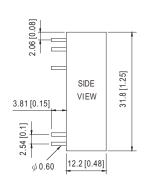


■ Mechanical Specification

Blank type(LDD-1000~1500L):

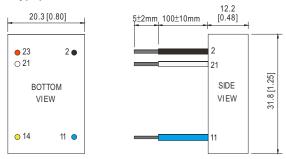
Unit: mm (inch)





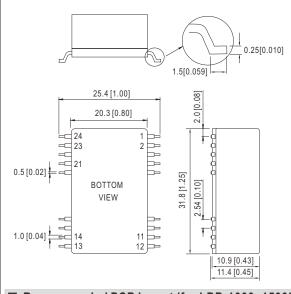
NOTE: Pin tolerance ±0.05mm

W type(LDD - 1000~1500LW):

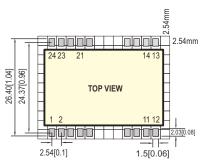


NOTE: All wires UL3385 22AWG

S type(LDD -1000~1500LS):



■ Recommended PCB layout (for LDD-1000~1500LS)



■ Pin Configuration

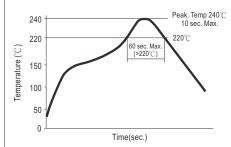
	Pin No.	Comment
1,2	-Vin	Don't connect to -Vout
11,12	-Vout	LED - Connection
13,14	+Vout	LED + Connection
21 PWM +analog DIM		ON/OFF and PWM / analog Dimming (Leave open if not used)
23,24 +Vin		DC Supply

	Pin No.	Comment
2	-Vin (Black)	Don't connect to -Vout
11	-Vout (Blue)	LED - Connection
14	+Vout (Yellow)	LED + Connection
21	PWM +analog DIM (White)	ON/OFF and PWM / analog Dimming (Leave open if not used)
23	+Vin (Red)	DC Supply

	Pin No.	Comment
1,2 -Vin		Don't connect to -Vout
11,12	-Vout	LED - Connection
13,14	+Vout	LED + Connection
21	PWM +analog DIM	ON/OFF and PWM / analog Dimming (Leave open if not used)
23,24	+Vin	DC Supply
others	N.C	No connection

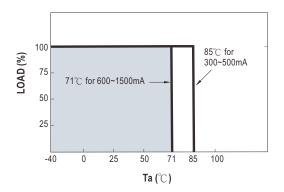


■ Reflow Soldering Curve (for LDD-300~1500LS)



Remark : The curve applies only to the "Hot Air Reflow Soldering"

■ Derating Curve



■ PWM Dimming Control (for 300~1500mA)

Io Adjustment by PWM signal:



300 ~ 700mA:

H: > 3.5~8VDC or open circuit

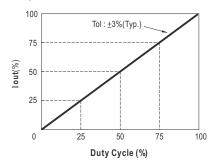
L: < 0.5VDC or short

1000 ~ 1500mA:

H: > 2.6~5.5VDC or open circuit

L: < 0.4VDC or short

$\ensuremath{\bigcirc}$ During PWM dimming operation, the output current will change to PWM style.



■ Analog Dimming Control for 1000~ 1500mA only

Io Adjustment by DC voltage:

